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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/728,495

12/05/2003

Alan C. Berkema

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EXAMINER

HOANG, DANIEL L

ART UNIT

PAPER NUMBER

2136

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/728,495	Applicant(s) BERKEMA ET AL.	
	Examiner Daniel L. Hoang	Art Unit 2136	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-49 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-49 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

CLAIM REJECTIONS

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-7, 9-11, 31, 33-37, 39-41 are rejected under 35 U.S.C. 102(e) as being anticipated by Willey, US PGP No. 20030065918.

As per claim 1, 31, 33, 48, Willey teaches:

A method for publishing a PIN for use in establishing a pairing with a printing device, comprising: the printing device generating the PIN in response to a local PIN request; and

[see paragraph 0041]

the printing device printing the PIN.

[see paragraph 0042]

In rejecting this claim, examiner interprets the claimed 'printing device' as a device containing hardware capable of forming a printed image on paper or any other media. This definition is documented in applicant's specification. Following this interpretation, a device capable of printing an image on a display screen, such as that taught by the Willey reference, successfully reads on the current claim.

As per claim 3, 4, Willey teaches:

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A method for publishing a PIN for use in establishing a pairing with an audio equipped device, comprising:
the audio equipped device generating the PIN in response to a local PIN request; and

[see paragraph 0041]

the audio equipped device audibly publishing the PIN.

[see paragraph 0042]

As per claim 5, 35, Willey teaches:

A method for initializing a device pairing, comprising: generating a PIN in response to a local PIN request;

[0041]

publishing the PIN;

[0042]

receiving a connection request with PIN data; and

[0048]

generating a link key using the PIN data, the link key used for device pairing.

[0048]

As per claim 6, 36, Willey teaches:

The method of claim 5, wherein publishing comprises printing the PIN.

[0042]

As per claim 7, 37, Willey teaches:

The method of claim 5, wherein publishing comprises audibly publishing the PIN.

[0042]

As per claim 9, 34, 39, Willey teaches:

The method of claim 5, wherein the local PIN request is a local request to publish an audible message,
and wherein publishing comprises publishing an audible message that includes the PIN.

[0042]

As per claim 10, 40, Willey teaches:

The method of claim 5, further comprising determining the validity of the PIN data prior to generating the link key.

[0048]

As per claim 11, 41, Willey teaches:

The method of claim 10, wherein determining includes determining if the PIN data corresponds to the PIN, determining if the generated PIN has expired, and rejecting the connection request if the PIN data does not correspond to the PIN or if the PIN has expired.

[0043-0047]

Claims 13, 23, 43, are rejected under 35 U.S.C. 102(e) as being anticipated by Phillips, US Patent No. 6748195.

As per claim 13, 23, 43, Phillips teaches:

A method for establishing a pairing between a claimant device and a verifying device, comprising:
receiving from the claimant device a connection request, the connection request including PIN data;

[col. 5, lines 48-59]

determining whether a link key exists for the verifying device;

[col. 5, lines 59-65]

if a link key exists:

rejecting the connection request if the verifying device is not multi-claimant enabled;

[col. 7, lines 3-17]

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rejecting the connection request if the verifying device is multi-claimant enabled with restricted access and the claimant device is not approved;

[col. 7, lines 3-17]

otherwise, upon a determination that the PIN data is valid, generating a link key from the PIN data to establish a pairing between the claimant device and the verifying device.

[col. 6, lines 1-10]

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 8, 12, 32, 38, 42, 49, are rejected under 35 U.S.C. 103(a) as being unpatentable over Willey, US PGP No. 20030065918.

As per claim 2, 8, 32, 38, 49:

Claim 2 reads as follows:

The method of claim 1, identifying a local request to print a test page as the local PIN request and wherein printing the PIN comprises printing a test page that includes the PIN.

The Willey reference does not explicitly teach that the authenticating or authenticated device is specifically a printer. Bluetooth enabled printers are well known in the art (see Nassimi, US Patent No. 7,142,814). It would have been obvious to apply the functionalities and capabilities of the devices in the Willey reference to Bluetooth enabled printers at the time of the invention. As taught by the Willey reference, prior to establishing a PIN, the two devices are communicating in an insecure manner. Thus it would be advantageous communicate potentially private information to the printer for printing. For this

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reason, it would be obvious to first print a test page. The PIN would be included on the test page so that the user can ensure that both devices are utilizing the same PIN.

As per claim 12, 42:

Claim 12 reads as follows:

The method of claim 5 further comprising rejecting the connection request if the connection request is for a function not associated with the PIN data.

The Willey reference does not explicitly teach to reject a connection request if the request is for a function not associated with the PIN data. The PIN data identifies the device seeking connection. It would be obvious to reject the connection request from a device such as a headset seeking to communicate with a printer because a headset would have no need to connect with a printer.

Claims 14-25, 27-30, 44-47, are rejected under 35 U.S.C. 103(a) as being unpatentable over Phillips as applied to claim 13 above, and further in view of Willey, US PGP No. 20030065918.

As per claim 14, 27, 44:

Claim 14 reads as follows:

The method of claim 13, further comprising: generating a PIN in response to a local PIN request made to the verifying device; and instructing the verifying device to publish the PIN.

Phillips does not explicitly cite instructing the verifying device to publish the PIN. Willey teaches devices capable of publishing PINs, as has been discussed above. It would have been obvious to combine the teachings of Phillips with the teachings of Willey in order to compare published PINs to ensure they match.

As per claim 15, 28, 45, Willey teaches:

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The method of claim 14, wherein the PIN and the PIN data are of the same format and wherein determining the validity of the PIN data includes determining if the PIN data matches the generated PIN.

[0050]

As per claim 16, 29, 46, Willey teaches:

The method of claim 14, wherein determining the validity of the PIN data comprises: acquiring a unique identifier for the claimant device; constructing verifying PIN data using the unique identifier and the generated PIN; determining if the PIN data matches the verifying PIN data.

[0050]

As per claim 17, 18, 30, 47:

A method for establishing a pairing between a claimant device and a printing device, comprising:
generating a PIN in response to a local request to print a test page made to the printing device;

[see rejection of claims 1 and 2]

instructing the printing device to print a test page that includes the PIN;

[see rejection of claim 2]

receiving from the claimant device a connection request, the connection request including PIN data;

[Phillips, col. 5, lines 48-59]

determining whether a valid link key exists exist for the printing device;

[Phillips, col. 5, lines 59-65]

if a valid link key exists:

rejecting the connection request if the printing device is not multi-claimant enabled;

[Phillips, col. 7, lines 3-17]

rejecting the connection request if the printing device is multi-claimant enabled with restricted access and the claimant device is not approved;

[Phillips, col. 7, lines 3-17]

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otherwise, upon a determination that the PIN data is valid, generating a link key from the PIN data to establish a pairing between the claimant device and the printing device.

[Phillips, col. 6, lines 1-10]

As per claim 19, Willey teaches:

The medium of claim 18, wherein the instructions for publishing include instructions for printing the PIN.

[0042]

As per claim 20, Willey teaches:

The medium of claim 18, wherein the instructions for publishing include instructions for audibly publishing the PIN.

[0042]

As per claim 21:

The medium of claim 18, wherein the local PIN request is a local request to print a test page, and wherein the instructions for publishing include instructions for printing a test page that includes the PIN.

[see rejection of claim 2]

As per claim 22, Willey teaches:

The medium of claim 18, wherein the local PIN request is a local request to publish an audible message, and wherein the instructions for publishing include instructions for publishing an audible message that includes the PIN.

[0042]

As per claim 23, Willey teaches:

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The medium of claim 18, having further instructions for determining the validity of the PIN data prior to generating the link key.

[0048]

As per claim 24, Willey teaches:

The medium of claim 23, wherein the instructions for determining include instructions for determining if the PIN data corresponds to the PIN, determining if the generated PIN has expired, and rejecting the connection request if the PIN data does not correspond to the PIN or if the PIN has expired.

[0043-0047]

As per claim 25:

The medium of claim 18, having further instructions for rejecting the connection request if the connection request is for a function not associated with the PIN data.

[see rejection of claim 12]

POINTS OF CONTACT

- * Any response to this Office Action should be **faxed to (571) 273-8300 or mailed to:**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window
Randolph Building
401 Dulaney Street
Alexandria, VA 22314

- * Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel L. Hoang whose telephone number is 571-270-1019. The examiner can normally be reached on Monday - Thursday, 8:00 a.m. - 5:00 p.m., EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Daniel L. Hoang
6/13/07

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